

Abstract

A radio communication device includes a beacon reception unit extracting a frame from a received beacon and a frame judgment unit judging whether the extracted frame is one requiring data transmission/reception or one giving notice of a collision with a beacon of another network, a frame constructing unit used when the frame judgment unit has judged that the frame is a collision notification, generating a frame for relaying the collision notification and a movement notification to a new beacon transmission period, and a beacon transmission instruction unit instructing transmission of the frame at the beacon transmission timing. Accordingly, since these notifications can be relayed, all radio communication devices of the same network can move to a new beacon transmission period while avoiding a collision with a beacon from a radio communication device of another network.